Elbit Systems
Corporate Headquarters - International Marketing & Business Development

Elbit Systems Ltd.

MILITARY AVIONICS AND UPGRADES

CockpitNG™

Packed with technical innovations, Elbit Systems' Cockpit NG™ is the result of the Company's decades of experience and expertise in creating advanced avionics concepts for the cockpits of tomorrow.

Elbit Systems' CockpitNG™ integrates a wide variety of helmet-mounted, heads-up and panoramic displays with advanced algorithms, sensor & data fusion and development tools. It is a complete, fully customizable multi-mission cockpit that assures aircrews improved situational awareness reduced workload and enhanced flight safety.

C-130 C-SUITE TACTICAL

C-130 Hercules, the Tactical Airlifter of the 20th century is expected to be the Airlifter of choice for many more years to come.

The C-Suite Tactical, combining advanced avionics with best-of-breed mission systems, sensors, defense systems and more, tailored by Elbit Systems' engineering and integration experts, is built to make your C-130 fly, with increased capability, well into the 21st century.

Elbit Systems' rich and successful experience in complex systems integration projects for various aircraft, assures a smooth and cost effective integration of systems in the C-130.

The C-Suite Tactical is a flexible, modular solution created to effectively perform under the harsh and demanding conditions created by low altitude tactical

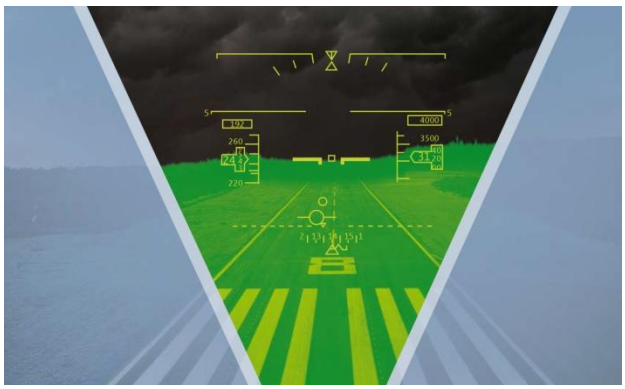
environments. The C-Suite Tactical provides accurate, real-time information projected on the Head-Up, Head-Down or Helmet Mounted display enabling a safer and more precise mission execution as well as greater situational awareness.
The C-Suite Tactical applications are a seamless integration of complex sensors and systems suited specially to the C-130 flight deck avionics.

COMMERCIAL AVIATION SOLUTIONS

CLEARVISION™

Elbit Systems' ClearVision™ Improves the capability of commercial, business and military aircraft to execute precision and non-precision approaches and safely land in fog, rain, dust, and other reduced visibility conditions thereby reducing CFIT (Clear Flight into Terrain) accidents.

ClearVision™ combines Synthetic Vision – SVS, with the outside-world picture obtained by an Enhanced Vision System.



AEROSTRUCTURE

WINGLET

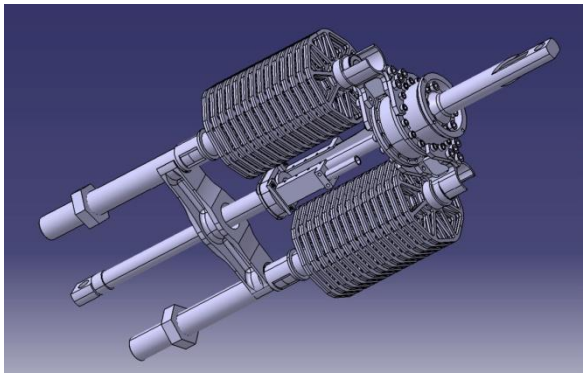
Full integral composite winglet that is produced in only 3 steps: Upper and lower skins with integrated frame, and simple assembly of both skins despite the complicated contour assembly. Related advantages of this structure are less production stations, reduced lead time and reduced dependency on sub-contractors. Cyclone's Winglet provides an affordable and weight saving solution.

AILERON

Cyclone developed and produced innovative "one-shot" composite control surface. The control surface is manufactured in RTM ("Resin Transfer Molding") technology using low cost aerospace grade fabrics which are pre-formed on metallic mandrels. The control surface embodies innovative composite fittings that are embedded between the main frame layers, adhered and mechanically locked to the main frame beams with no fasteners.

During this development a breakthrough concept, "Composite material structures with integral composite fittings and methods of manufacture" was invented and submitted for a patent.

EMERGENCY OPENING ACTUATOR FOR AIRCRAFT PASSENGER DOORS



Innovative fully mechanical, emergency passenger door mechanism. The solution will reduce operational and manufacturing costs due to low weight, low maintenance and lower component cost.

The mechanism is suitable for any platform and can be mounted easily due to the interchangeability of the mechanism.

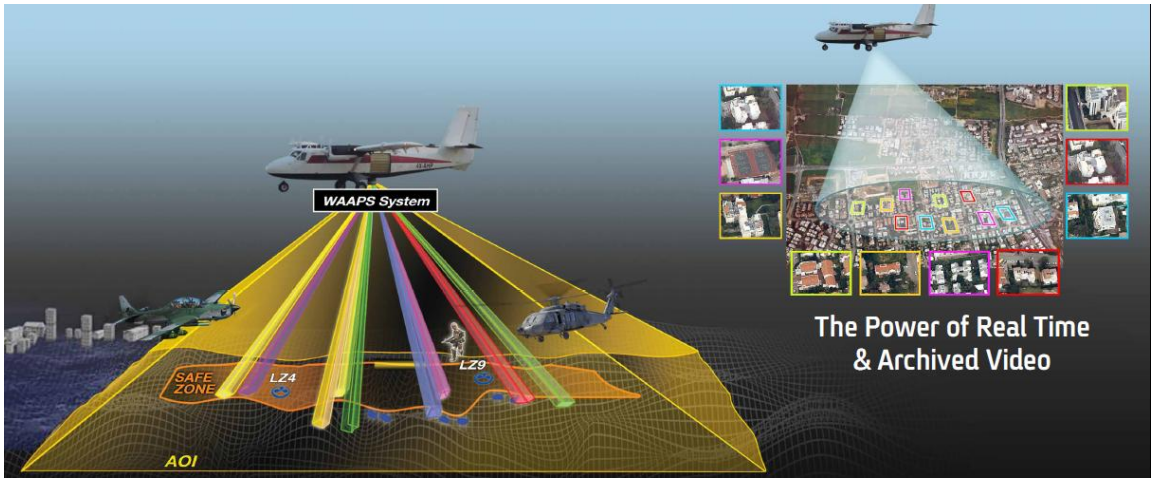
ISTAR CAPABILITIES

SKEYE

Elbit Systems has developed an innovative solution to provide real-time ubiquitous situational awareness for multiple users. The system incorporates a high-resolution, Wide Area Airborne Persistent video Surveillance (WAAPS) system, capable of continuously monitoring vast areas, intercept events and maintain multiple regions of interest (ROI) under constant surveillance, with high spatial resolution. The modular SkEye system provides execution and management of several missions simultaneously and supports access to a video archive of ongoing and past aerial missions, allowing video queries by time, location and event.

Elbit Systems

Corporate Headquarters - International Marketing & Business Development



UNMANNED AERIAL SYSTEMS

HERMES® 900

Elbit System's Hermes® 900 UAS is equipped with a variety of high performance sensors, allowing it to detect ground or maritime targets, over a wide spectral range. Hermes® 900 provides over the horizon, persistent multi-payload capabilities. It is based on the proven and mature building blocks of Elbit System's Hermes® family setting the highest levels of airworthiness, safety & reliability. Latest MALE UAS procured by the IDF & by multiple international users.

Hermes 900 will be displayed at our outdoor area A-21 with a comprehensive array of payloads

HERMES® 450

Fighting terror for over a decade – Hermes® 450 plays a major role day after day in the continuous war against terror around the globe. The Hermes® 450 UAS is a mature and combat proven system with over 400,000 operational flight hours. Hermes® 450 has a class leading safety & reliability record over years. Hermes® 450's highly autonomous operation and ergonomic user interface enable high mission effectiveness for any mission over land or sea with no piloting skills required. As you read these lines, there are numerous Hermes® UAVs airborne in operational missions worldwide.

HERMES® 90

Elbit Systems' Hermes® 90 provides an optimized combination of high-end tactical UAS characteristics, with high mobility, rapid deployment, point-launch & recovery in harsh field conditions, and significantly lower cost than comparable tactical UAS. Hermes® 90 is highly autonomous with mission effective flight modes, a variety of quality mission payloads and flexible deployment schemes. Optimal for a variety of military, HLS, and commercial applications

SKYLARK® 1 LE

Skylark® I-LE is a battle-proven, high performance system delivered to over 20 users worldwide. It is the IDF's selected and in-service battalion level UAS. It is an organic, highly covert aerial ISR means delivering actionable, high resolution video in real time. Skylark® I-LE is highly autonomous, including fly-by-camera mode, enabling intuitive mission-execution with minimal training. It enables man-packed or vehicle-based deployment and static, as well as on-the-move operation.

ELCTRO OPTICS

C-MUSIC™ – Commercial MUlti-Spectral Infrared Countermeasure system

Providing superior protection against multiple infrared missile threats to fixed and rotary-wing commercial airborne platforms, C-MUSIC™ is a highly effective DIRCM. C-MUSIC™ integrates our advanced fiber laser and thermal imaging technologies to generate a high-power multispectral jamming signal to deflect shoulder fired IR missiles (MANPADS) from their intended target. Protecting passengers on commercial airlines, VIP aircraft and civilian transport planes, C-MUSIC™ operates automatically and safely without any effect on the aircraft performance. C-MUSIC™ has been selected by the Israeli Ministry of Transportation as the protection suite for all Israel's commercial airlines.

J-MUSIC™

J-MUSIC™ is designed to protect large aircraft: transports, tankers, special mission platforms, VIP jets and more against MANPADS. Based on the system selected by the Israeli Government to protect passenger aircraft, J-MUSIC™ is a multi-spectral infrared fiber-laser based DIRCM system, which rapidly acquires and tracks incoming missiles and deflects them from target using a laser beam. J-MUSIC™ is lightweight, compact, and easily installed on a broad range of aircraft types, in single or multi-turret configurations. It has been selected for several programs such as Embraer's KC-390 for the Brazilian Air Force.

AMPS

The Advanced Multi-sensor Payload System is a dynamic target detection and recognition payload for strategic ISR and ISTAR at standoff ranges. A highly stabilized EO payload, AMPS delivers excellent day and night ISTAR capabilities, facilitated by autonomous navigation with inertial system and GPS. Adapted to customer requirements, the AMPS sensor array might include two day TV CCD sensors, a FLIR sensor and an ICCD sensor.

DCoMPASS® - Digital Compact Multi Purpose Advanced Stabilized System

a highly stabilized electro-optical payload system, delivering superb day and night ISTAR capabilities in the harshest weather conditions. The multi-sensor system is system designed for long-range surveillance and targeting functions for UAVs, helicopters, fixed wing, maritime and ground platforms. Its small dimensions, low weight, high stabilization level and coverage angles make it an optimal choice for a wide range applications.

EW AND SIGINT

Unified Self Protection Suite for Helicopters, Transport Aircraft & Aerial Platforms

Elbit Systems EW and SIGINT - Elisra's Unified EW suite for helicopters, transport aircraft & Aerial Platforms includes advanced EW capabilities packed into a single LRU, delivering superior identification and location under challenging conditions.

The system includes the following components:

SPS 45 V5 - Radar Warning Receiver

LWS-20 - Laser Warning System

PAWS - IR Passive Approach Warning System

SPJ-20 - Lightweight Self Protection Jammer

Chaff/Flare Dispensers

Laser DIRCM

SIGINT Payloads for UAS designed to meet the full range of UAV tactical and strategic mission requirements:

Emerald – AES 210/V - ESM/ELINT Payload for UAS

iSNS – Immune Satellite Navigation System, GPS ECCM System

Elbit Systems

Corporate Headquarters - International Marketing & Business Development

SKYFIX/SKYJAM – COMINT/DF and COMJAM Payload for UAS